

SPYWOLF

Security Audit Report



Audit prepared for

Monstro's Degenz V1.5

Completed on

February 11, 2024



OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -



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KEY RESULTS

| Cannot mint new tokens | N/A |
|--|--------|
| Cannot pause trading (honeypot) | * |
| Cannot blacklist an address | Passed |
| Cannot raise taxes over 25%? | Passed |
| No proxy contract detected | Passed |
| Not required to enable trading | * |
| No hidden ownership | Passed |
| Cannot change the router | N/A |
| No cooldown feature found | Passed |
| Bot protection delay is lower than 5 blocks | N/A |
| Cannot set max tx amount below 0.05% of total supply | Passed |
| The contract cannot be self-destructed by owner | Passed |

N/A = Not applicable for this type of contract

*Only new deposits/reinvestments can be paused

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.





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Monstro's Degenz V1.5





PROJECT DESCRIPTION

According to their whitepaper:

"Are you a DeFi enthusiast who loves the allure of profitable ROI dApps but hates enduring endless losses? Look no further than Monstro's Degenz! Unleash your inner degen amongst the safety of your fellow monsters."

Release Date: Launching Feb 14, 2024

Category: ROI dApp, Farming



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CONTRACT INFO

Token Name

MonstroDegenzSlv2

Symbol

N/A

Contract Address

Not Deployed

Network

N/A

Contract Type

Language

Solidity

Deployment Date
Not Deployed

Staking

Total Supply

N/A

Status

Not Deployed

TAXES

Buy Tax *30% + ref reward Sell Tax

5%



Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

^{*}Distribution of buy tax according to the project's team: "Farmz working capital, which benefits the user as it is their "safety net" passive income for when the "ROI dApp" phase runs dry." Referral reward tax can be up to 20%, depending on referral's cashback settings.



TOKEN TRANSFERS STATS

| Transfer Count | N/A |
|-------------------------|-----|
| Uniq Senders | N/A |
| Uniq Receivers | N/A |
| Total Amount | N/A |
| Median Transfer Amount | N/A |
| Average Transfer Amount | N/A |
| First transfer date | N/A |
| Last transfer date | N/A |
| Days token transferred | N/A |

SMART CONTRACT STATS

| Calls Count | N/A |
|-----------------------|-----|
| External calls | N/A |
| Internal calls | N/A |
| Transactions count | N/A |
| Uniq Callers | N/A |
| Days contract called | N/A |
| Last transaction time | N/A |
| Created | N/A |
| Create TX | N/A |
| Creator | N/A |

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VULNERABILITY ANALYSIS

| ID | Title | |
|---------|--------------------------------------|--------|
| SWC-100 | Function Default Visibility | Passed |
| SWC-101 | Integer Overflow and Underflow | Passed |
| SWC-102 | Outdated Compiler Version | Passed |
| SWC-103 | Floating Pragma | Passed |
| SWC-104 | Unchecked Call Return Value | Passed |
| SWC-105 | Unprotected Ether Withdrawal | Passed |
| SWC-106 | Unprotected SELFDESTRUCT Instruction | Passed |
| SWC-107 | Reentrancy | Passed |
| SWC-108 | State Variable Default Visibility | Passed |
| SWC-109 | Uninitialized Storage Pointer | Passed |
| SWC-110 | Assert Violation | Passed |
| SWC-111 | Use of Deprecated Solidity Functions | Passed |
| SWC-112 | Delegatecall to Untrusted Callee | Passed |
| SWC-113 | DoS with Failed Call | Passed |
| SWC-114 | Transaction Order Dependence | Passed |
| SWC-115 | Authorization through tx.origin | Passed |
| SWC-116 | Block values as a proxy for time | Passed |
| SWC-117 | Signature Malleability | Passed |
| SWC-118 | Incorrect Constructor Name | Passed |

04-A



VULNERABILITY ANALYSIS

| ID | Title | |
|---------|---|--------|
| SWC-119 | Shadowing State Variables | Passed |
| SWC-120 | Weak Sources of Randomness from Chain Attributes | Passed |
| SWC-121 | Missing Protection against Signature Replay Attacks | Passed |
| SWC-122 | Lack of Proper Signature Verification | Passed |
| SWC-123 | Requirement Violation | Passed |
| SWC-124 | Write to Arbitrary Storage Location | Passed |
| SWC-125 | Incorrect Inheritance Order | Passed |
| SWC-126 | Insufficient Gas Griefing | Passed |
| SWC-127 | Arbitrary Jump with Function Type Variable | Passed |
| SWC-128 | DoS With Block Gas Limit | Passed |
| SWC-129 | Typographical Error | Passed |
| SWC-130 | Right-To-Left-Override control character (U+202E) | Passed |
| SWC-131 | Presence of unused variables | Passed |
| SWC-132 | Unexpected Ether balance | Passed |
| SWC-133 | Hash Collisions With Multiple Variable Length Arguments | Passed |
| SWC-134 | Message call with hardcoded gas amount | Passed |
| SWC-135 | Code With No Effects | Passed |
| SWC-136 | Unencrypted Private Data On-Chain | Passed |





THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS



Medium Risk

Payout calculating function uses external contract to check user. If the external contract return incorrect data and/or halt on function call, the current claim() function will also halt. The external contract may return max nft boost (1%) to selected users.

```
function claim() public {
   uint256 claimableAmount = calculateClaimableAmount(msg.sender);
   if (claimableAmount > 0) {
       _claim(claimableAmount);
function calculateClaimableAmount(address wallet) public view returns (uint256) {
uint256 dailyRate = calculateTotalPayoutRate(wallet);
function calculateTotalPayoutRate(address wallet) public view returns (uint256) {
   uint256 currentBaseRate = getBaseRate();
   uint256 nftBoost = calculateNFTBoost(wallet);
   uint256 personalBoost = calculatePersonalBoost(wallet);
   uint256 totalPayoutRate = currentBaseRate + nftBoost + personalBoost;
   return totalPayoutRate;
function calculateNFTBoost(address wallet) public view returns (uint256)
   for (uint i = 0; i < nftBoosts.length; i++) {</pre>
   uint256 boostAmount = 0;
   boostAmount = contractChecker.executeDataCheck(nftBoosts[i].functionName, wallet);
 if (boost > MAX_BONUS_NFT)
       boost = MAX_BONUS_NFT;
   return boost;
```







Owner can migrate users with manually filled data only once.

```
function migrateWalletData(
    address[] memory _walletAddresses,
    uint256[] memory _lastActions,
    uint256[] memory _maxPayouts,
   uint256[] memory _totalDeposited,
    uint256[] memory _totalReinvested,
    uint256[] memory _totalStaked,
   uint256[] memory totalClaimed,
   uint256[] memory _farmzContributions,
    uint256[] memory _lockedFunds
) public onlyOwner onlyBeforeMigration {
    require(_walletAddresses.length == _lastActions.length, "Data arrays must have the same length");
    for (uint i = 0; i < _walletAddresses.length; i++) {
        WalletInfo storage wallet = walletData[_walletAddresses[i]];
        wallet.lastAction = _lastActions[i];
        wallet.maxPayout = _maxPayouts[i];
        wallet.totalDeposited = _totalDeposited[i];
        wallet.totalReinvested = _totalReinvested[i];
        wallet.totalStaked = _totalStaked[i];
        wallet.totalClaimed = _totalClaimed[i];
        wallet.farmzContribution = _farmzContributions[i];
        wallet.lockedFunds = _lockedFunds[i];
        globalDeposited += _totalDeposited[i];
        globalReinvested += _totalReinvested[i];
        globalStaked += _totalStaked[i];
        globalClaimed += _totalClaimed[i];
        hasMigrated[ walletAddresses[i]] = true;
        _addDepositor(_walletAddresses[i]);
    migrationCompleted = true; // Set the migration as completed
```

06-B



Owner can pause new deposits and reinvestments.

```
function toggleDepositsAndReinvests() public onlyOwner {
    depositsAndReinvestsPaused = !depositsAndReinvestsPaused;
    emit DepositsAndReinvestsToggled(depositsAndReinvestsPaused);
}
```

Owner can withdraw bnb from the contract for amounts up to the taxes collected for team/marketing/jacpot/genesis.

```
function withdrawJackpotTax() external onlyOwner {
   uint256 amount = owedToJackpot;
   owedToJackpot = 0;
   payable(walletJackpot).transfer(amount);
   emit WithdrawJackpotTax(amount);
function withdrawMarketingTax() external onlyOwner {
   uint256 amount = owedToMarketing;
   owedToMarketing = 0;
   payable(walletMarketing).transfer(amount);
   emit WithdrawMarketingTax(amount);
function withdrawGenesisTax() external onlyOwner {
   uint256 amount = owedToGenesis;
   owedToGenesis = 0;
   payable(walletGenesis).transfer(amount);
   emit WithdrawGenesisTax(amount);
function withdrawTeamTax() external onlyOwner {
   uint256 amount = owedToTeam;
   owedToTeam = 0;
   payable(walletTeam).transfer(amount);
   emit WithdrawTeamTax(amount);
```





baseRate will always be 100 as netDeposits will always be greater or equal to 0.

depletionRate will always return negative number and negative numbers will be always less than 45, 30 and 15.

```
function getBaseRate() public view returns (uint256) {
   uint256 today = _getCurrentDateKey();
   uint256 yesterdaysDateKey = today - 86400;
   if (dailyDeposits[yesterdaysDateKey] == 0 && dailyClaims[yesterdaysDateKey] == 0) {
       return 100;
   } else {
       uint256 yesterdaysDeposits = dailyDeposits[yesterdaysDateKey];
       uint256 yesterdaysClaims = dailyClaims[yesterdaysDateKey];
       uint256 netDeposits = yesterdaysDeposits >> yesterdaysClaims ? yesterdaysDeposits - yesterdaysClaims : 0;
       int256 depletionRate = netDeposits > 0 ? int256(globalLiquidity) / int256(netDeposits) * -1 : type(int256).min;
       uint256 baseRate;
       if (netDeposits >= 0) {
           baseRate = 100;
       } else if (depletionRate > 45) {
           baseRate = 80;
        } else if (depletionRate > 30) {
           baseRate = 60;
        } else if (depletionRate > 15) {
           baseRate = 40;
           baseRate = 20;
       return baseRate;
```







There is a 30 hours cutoff period for staking rewards.

Example - User stake and want to claim their rewards after 4 days, he/she will get the rewards for 30 hours period but not for 4 days.

```
function calculateClaimableAmount(address wallet) public view returns (uint256) {
    WalletInfo storage user = walletData[wallet];

    // Ensure that the user has some staked value
    if (user.totalStaked == 0) {
        return 0;
    }

    // Calculate the time difference (in seconds) since the last action
    uint256 timeElapsed = block.timestamp - user.lastAction;

    // Limit the timeElapsed to 30 hours (108000 seconds)
    if (timeElapsed > 108000) {
        timeElapsed = 108000;
    }
}
```

Some multisig wallets and/or another wallets in form of contracts might not claim rewards from the staking as only 2300 gas is reserved for the transfer.

This is valid only if the transfer changes states in the receiving contract and if the receiving contract cannot receive ether.

```
function _claim(uint256 claimableAmount) private {
    // Transfer net amount to user
    payable(msg.sender).transfer(netAmount);
    emit ClaimEvent(msg.sender, netAmount);
}
```





Migrated users can claim rewards at least after 6 days after migration is done.

```
function _claim(uint256 claimableAmount) private {
    require(canPerformRestrictedAction(msg.sender), "Restricted action not allowed yet");
}

function canPerformRestrictedAction(address user) internal view returns (bool) {
    // If the user has not migrated, they can perform the action
    if (!hasMigrated[user]) {
        return true;
    }

    // Check if 7 days have passed since migration
    uint256 migrationDateKey = _getCurrentDateKey() - 5 days;
    return dailyDeposits[migrationDateKey] != 0 || dailyClaims[migrationDateKey] != 0;
}
```





RECOMMENDATIONS FOR

GOOD PRACTICES

- Consider fundamental tradeoffs
- Be attentive to blockchain properties
- 3 Ensure careful rollouts
- 4 Keep contracts simple
- Stay up to date and track development

Monstro's Degenz GOOD PRACTICES FOUND

The owner cannot set a transaction limit

07



This is a ROI contract offering daily ROI up to 3% Users can increase their daily ROI through NFT and Personal "boosts". NFT bonuses are up to 1% and deposit value bonuses up to 1% allow for a total of 3% daily ROI.

Deposited funds are allocated as follows:

65% - Liquidity

30% - Farmz

5% - Marketing

Claims are subject to a 10% tax:

4% - Team

2.5% - Jackpot

2.5% - Marketing

1% - Genesis NFT holders

*ROI - Return of investment

ROI dapps are usually subject to high volatility and considered as high risk investments.

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THE TEAM

The team at Monstro is well-known and publicly doxxed. Linkedin profiles were provided.

0xVarius

https://www.linkedin.com/in/varius/



Technology

GaboSagaz



Marketing

Tilting-Shock

https://www.linkedin.com/in/adam-hudani/



Business & Operation





Home Website URL

https://monstro.fun/

Domain Registry

https://namecheap.com

Domain Expiration

2024-04-20

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Very nice color scheme and overall layout.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

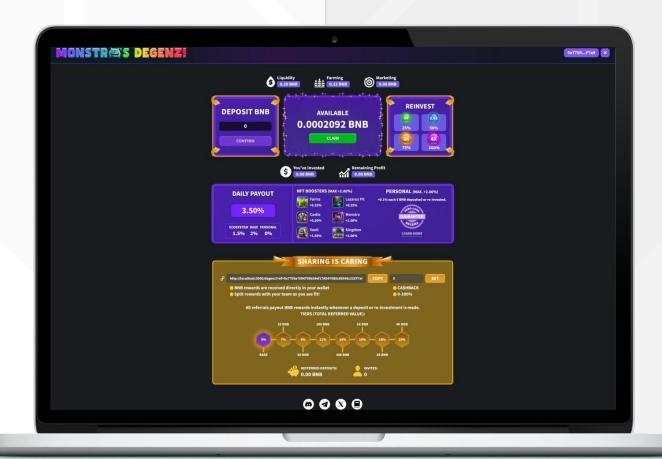
Well written and explanatory documents page

Roadmap

Yes, goals set

Mobile-friendly?

Yes



monstro.fun/degenz

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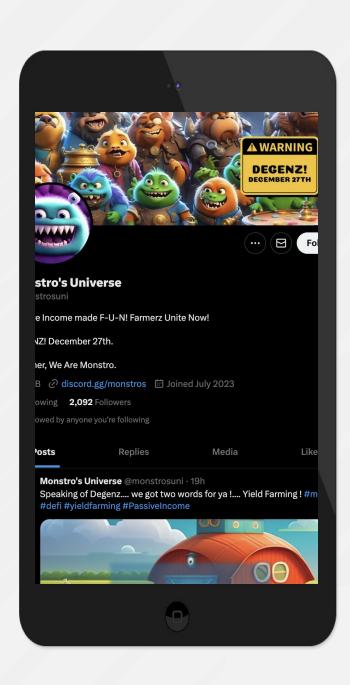
SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS

Project's social media pages are very active with devs and users interacting often.







Twitter

@monstrosuni

- 2 092 followers
- Active
- Posts frequently



Telegram

@monstrosU

- 980 members
- Active members
- Active mods



Discord

@monstros

- 1718 members
- Active community



Medium

Not available



SPYWOLF CRYPTO SECURITY

Audits | KYCs | dApps Contract Development

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We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.

